<110> VIB vzw

<120> A role in lignification and growth for plant phenylcoumaran benzylic ether reductase

<130> WBO/PCBER/V130

<150> EP 02079407.9

<151> 2002-10-18

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<170> PatentIn version 3.1

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ttc atc gtg gag gca agc gcc aag gcc ggt cac ccc act ttc gcc ttg      152
Phe Ile Val Glu Ala Ser Ala Lys Ala Gly His Pro Thr Phe Ala Leu
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Val Arg Glu Ser Thr Val Ser Asp Pro Val Lys Arg Glu Leu Val Glu
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aaa ttc aag aac tta ggc gtc act ttg atc cat gga gat gtc gac ggc      248
Lys Phe Lys Asn Leu Gly Val Thr Leu Ile His Gly Asp Val Asp Gly
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His Asp Asn Leu Val Lys Ala Ile Lys Arg Val Asp Val Val Ile Ser
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Ile Lys Glu Ala Gly Asn Val Lys Arg Phe Phe Pro Ser Glu Phe Gly
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Met Asp Val Asp His Val Asn Ala Val Glu Pro Ala Lys Thr Ala Phe
115              120              125              130

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Asp Gly His Asp Asn Leu Val Lys Ala Ile Lys Arg Val Asp Val Val
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Ile Ser Ala Ile Gly Ser Met Gln Ile Ala Asp Gln Thr Lys Ile Ile
              85   90   95

Ala Ala Ile Lys Glu Ala Gly Asn Val Lys Arg Phe Phe Pro Ser Glu
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Phe Gly Met Asp Val Asp His Val Asn Ala Val Glu Pro Ala Lys Thr
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Ala Phe Ala Met Lys Ala Gln Ile Arg Arg Ala Ile Glu Ala Ala Gly
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Ile Pro Tyr Thr Tyr Val Pro Ser Asn Phe Phe Ala Ala Tyr Tyr Leu
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Pro Thr Leu Ala Gln Phe Gly Leu Thr Ala Pro Pro Arg Asp Lys Ile
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Thr Ile Leu Gly Asp Gly Asn Ala Lys Leu Val Phe Asn Lys Glu Asp
           180   185   190

Asp Ile Gly Thr Tyr Thr Ile Lys Ala Val Asp Asp Ala Arg Thr Leu
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Asn Lys Thr Val Leu Ile Lys Pro Pro Lys Asn Thr Tyr Ser Phe Asn
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Glu Leu Ile Asp Leu Trp Glu Lys Lys Ile Gly Lys Thr Leu Glu Lys
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Thr Phe Val Pro Glu Glu Lys Leu Leu Lys Asp Ile Gln Glu Ser Pro
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Ile Pro Ile Asn Ile Val Leu Ser Ile Asn His Ser Ala Leu Val Asn
           260   265   270

Gly Asp Met Thr Asn Phe Glu Ile Asp Pro Ser Trp Gly Leu Glu Ala
           275   280   285

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Ser Glu Leu Tyr Pro Asp Val ⬤ Tyr Thr Thr Val Glu Glu Tyr Leu
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Asp Gln Phe Val
305